



CDC Citrine Variety Description

May, 2023

Market Class: Yellow Pea

Year Released to Select Seed Growers: 2022

Sub-licensed Outside of SK: Pending

International Distribution Rights: No

Breeder: Dr. Tom Warkentin, Crop Development Centre, University of Saskatchewan, Saskatoon, SK

Plant Breeders Rights: Applied

Description

CDC Citrine (5296-2) is a mid-maturing very high-yielding yellow pea that was one of the 3 highest yielding pea varieties after 4 years of testing in the Co-op and regional trials in Saskatchewan. Compared to the check variety CDC Amarillo, it yielded 108% in the south and 110% in the north (Table 1). It has very good standability; similar to CDC Amarillo and CDC Spectrum and medium-long vine length. Protein is moderate (0.5% higher than CDC Amarillo). It has slightly improved resistance to mycosphaerella blight and improved resistance to fusarium root rot vs. CDC Spectrum, CDC Lewochko or CDC Inca. It has good seed characteristics and is rated good for resistance to seed coat breakage, dimpling and greenness.

Strengths

- High yield in both north & south geographies
- Good seed characteristic package – rated good for:
 - Resistance to seed coat breakage;
 - Resistance to dimpling;
 - Greenness (less green colouration) – better than CDC Inca or CDC Spectrum
 - Round seed shape
- Good lodging resistance; similar to CDC Spectrum and CDC Amarillo, better than CDC Inca or CDC Meadow
- Rated moderately resistant to Fusarium root rot – similar to CDC Amarillo, better than CDC Spectrum
- Improved resistance to mycosphaerella blight – rated slightly better than CDC Amarillo
- Powdery mildew resistance

Neutral

- Medium maturity
- Medium-long vine length
- Medium seed weight, similar to CDC Amarillo
- Medium protein concentration, intermediate to CDC Amarillo and CDC Lewochko

Table 1: Performance data from the Co-op and Regional Variety trials for yellow pea candidate variety CDC Citrine vs. the check variety CDC Amarillo and top performing varieties

VARIETY	YEAR OF RELEASE/ REGISTRATION	YIELD % AMARILLO		RELATIVE MATURITY	LODGING (1-9)**	RESISTANCE TO:					SEED WEIGHT (G/ 1000)	PROTEIN VS. CDC AMARILLO
		1, 2, & SOUTH 3*	NORTH 3 & 4*			MYCOSPHAERELLA BLIGHT***	FUSARIUM ROOT ROT	SEED COAT BREAKAGE	SEED COAT DIMPLING****	GREENNESS*****		
CDC AMARILLO (CHECK)	2012	100	100	MEDIUM	3.5	4.5	MR	FAIR	FAIR	GOOD	230	23.0
AAC ABERDEEN	2019	108	103	MEDIUM	3.5	4.5	I	FAIR	FAIR	GOOD	250	-1.1

AAC CHROME	2017	106	104	MEDIUM	4.5	4.5	I	GOOD	GOOD	GOOD	240	-1.0
CDC HICKIE	2021	108	110	MEDIUM	3.5	4.5	MR	GOOD	GOOD	GOOD	230	+0.5
CDC INCA	2015	104	101	MEDIUM	4.0	4.5	I	GOOD	GOOD	FAIR	230	-0.6
CDC LEWOCHKO	2018	102	103	MEDIUM	3.5	4.5	I	GOOD	GOOD	GOOD	230	+0.9
CDC SPECTRUM	2016	104	102	MEDIUM	3.5	4.5	I	GOOD	GOOD	FAIR	240	+0.7
CDC TOLLEFSON	2021	108	108	MEDIUM	3.0	4.0	MR	GOOD	GOOD	GOOD	240	-0.3
CDC CITRINE	2022	108	110	MEDIUM	3.5	4.0	MR	GOOD	GOOD	GOOD	230	0.5

Source: Varieties of Grain Crops ([SaskSeed Guide](#)) and Crop Development Centre, U of S

*Area 1: Brown soil zone; Area 2: Dark brown; Area 3: Black; Area 4: Dark grey

**Lodging score: 1 = Upright; 9 = Completely lodged

***Mycosphaerella blight score: 1 = No disease, 9 = Completely blighted

****Seed coat dimpling: Very Good = 0-5%; Good = 6-20%; Fair = 21-50%

*****Greenness: Good = 0-15%; Fair = 16-40%



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